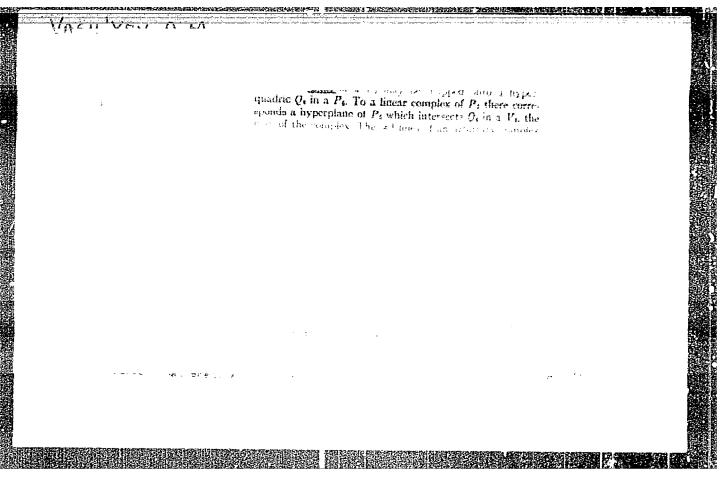
VASIL'YEV, A.M., red.; KUZNETCOV, V.I., red.; PETRUNICHEV, V.N., red.

[Computer and information techniques] Vychislitel'naia i informatsionnaia tekhnika; sbornik materialov. Moskva, Vses. in-t nauchnoi i tekhn. informatsii AN SSSR, 1962. 220 p. (MIRA 17:7)

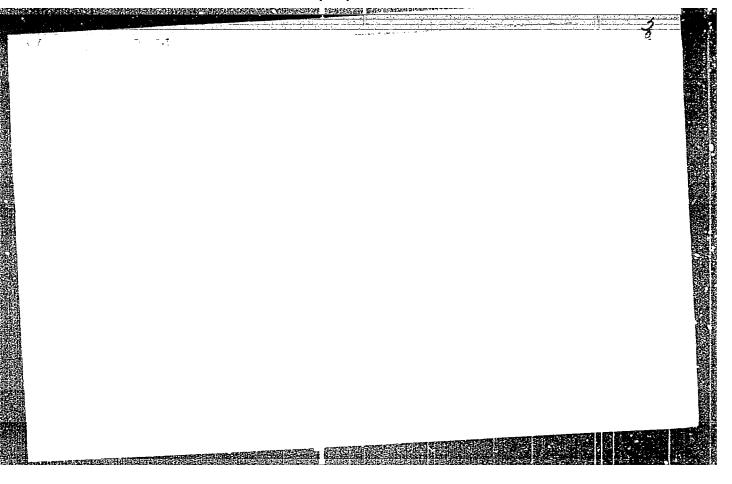
1. Konferentsiya po obrabotke informatsii, mashinnomu perevodu i avtomaticheskomu chteniyu teksta. Moskva, 1961.

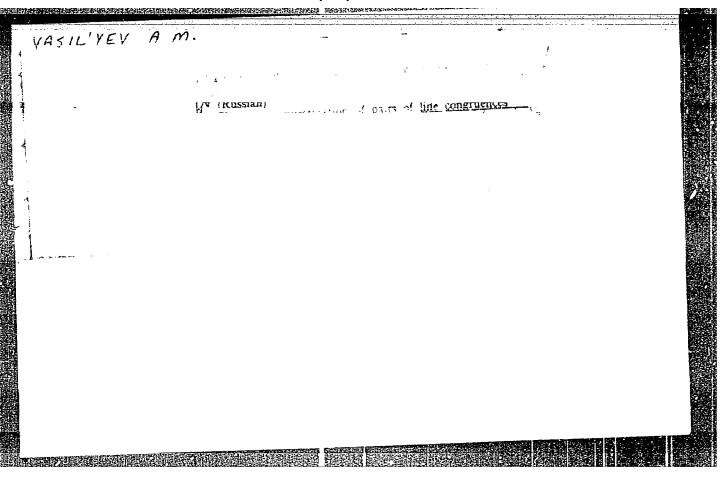


XASIL'YEV,	л. н.	Auto o a servicio de la companya de	problem as a gentions in a spac- Lie groups. Su 28 Apr 51.	complete description of the di of a manifold imbedded in a ho with finite fundamental group corresponding connection ("Dok Vol LXXVII, No 2, 1951). Disc	USSR/Mathematics - Dit	braic scheme of difference to the study of the procussed in differential recently showed that the given by him of the constants.	"Dok Ak Nauk SSSR"	"General Invariantive Geometry," A. M. Vas and Nech, Moscov Stat	USSR/Mathematics	
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		210 <u>r</u> 47	ev's construc- of infinite . Petrovskiy	த த த ஜ	effects a	tive inve bein objec . Lay aic s aic s	pp 5-7	Differential Res Inst of Math V. Lomonosov	try 1 Jul 51	entre de la company de la comp

VASILYEV, A. M. -- "Envariant Analytic Methods in Differential Geometry." Sub 17 Jun 52, Sci Res In. t of Mechanics and Mathematics, Moncow Order of Lenin State U imeni M. V. Lemonosov. (Discertation for the Degree of Candidate in Physicomathematical Sciences).

S0: Vechernaya Moskva January-December 1952





ABRAMOV, A.A., redaktor; BOLTYANSKIY, V.G., redaktor; VASIL'YEV, A.M., redaktor; MEDVEDEV, B.V., redaktor; MYSHKIS, A.D., redaktor; NIKOL'SKIY, S.M., otvetstvennyy redaktor; POSTNIKOV, A.G., redaktor; PROKHOROV, Yu.V., redaktor; RYBNIKOV, K.A., redaktor; UL'YANOV, P.L., redaktor; USPENSKIY, V.A., redaktor; CHETAYEV, N.G., redaktor; SHILOV, G.Ye., redaktor; SHIRSHOV, A.I., redaktor; SIMKINA, Ye.N., tekhnicheskikh redaktor

[Proceedings of the third All-Union mathematical congress] Trudy tret ego vsesoiuznogo matematicheskogo s*ezda. Moskva, Izd-vo Akademii nauk SSSR. Vol.1. [Reports of the sections] Sektsionnye doklady. 1956. 236 p. (MIRA 9:7)

1. Vsesoyuznyy matematicheskiy s*yezd.3rd Moscow, 1956. (Mathematics)

ABRAMOV, A.A., redaktor; BOLTYANSKIY, V.G., redaktor; YASILLYAV. A.M., redaktor; MMDVMDEV, B.V., redaktor; MYSHKIS, A.D., redaktor; HIKOL'SKIY, S.M., otvetstvennyy redaktor; POSTHIKOV, A.G., redaktor; PROKHOROV, Yu.7., redaktor; RYBNIKOV, K.A., redaktor; UL'YANOV, P.L., redaktor; USPENSKIY, V.A., redaktor; CHETAYEV, N.G., redaktor; SHILOV, G.Ye., redaktor; SHIRSHOV, A.I., redaktor; SIMKINA, Ye.H., tekhnicheskiy redaktor

[Proceedings of the all-Union Mathematical Congress] Trudy tret'ego vsesoiuznogo Matematicheskogo s"ezda; Moskva iiun'-iiul' 1956.

Moskva, Izd-vo Akademii nauk SSSR. Vol.2. [Brief summaries of reports] Kratkoe soderzhanie obzornykh i sektsionnykh dokladov.

1956. 166 p. (MIRA 9:9)

1. Vsesoyuznyy matematicheskiy swyezd. 3, Moscow, 1956. (Mathematics)

NIKOL'SKIY, S.M., etv.red.; ABRAMOV, A.A., red.; BOLTYANSKIY, V.G., red.;

VASIL'YEV. A.M., red.; MEDVEDEY, B.V., red.; MYSHKIS, A.D., red.;

POSTNIKOV, A.G., red.; PROKHOROV, Tu.V., red.; RYBHIAOV, K.A.,

red.; UL'YANOV, P.L., red.; USPENSKIY, V.A., red.; CEFTATEV, H.G.,

red.; SHILOV, G.Te., red.; SHIRSHOV, A.I., red.; GUSEVA, I.N.,

tekhn.red.

[Proceedings of the Third All-Union Mathematical Congress] Trudy

tret'ego Vassciuznoge matematicheskogs s"ezda. Vel.3 [Symeptic

papers] Obzornye doklady. Moskva, Izd-vo Akad.nauk SSSR, 1958, 596 p.

(MIRA 12:2)

1. Vsessyuznyy matematicheskiy s"yezd. 3d, Moscow, 1956.

(Mathematics—Congresses)

SOV/140 -58-2-3/20 Vasil'yer, A.M. AUTHOR: Orthogonal Pairs of Subgroups of the Groups O(n) (Ortogonal'nyye TITLE: pary podgrupp grupp O(n)) PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy Ministerstva vysshego obrazovaniya SSSR, Matematika, 1958, Nr 2, pp 17-28 (USSR) Let O(n) be the motion group of the elliptic (n-1)-dimensional ABSTRACT: space S_{n-1} (i.e. the group of real orthogonal matrices of the n-th order). Subgroups of the type g are subgroups isomorphic to the direct product $O(m_1) \times O(m_2) \times \dots \times O(m_k)$ ($\sum m_{\frac{k}{2}} > n$, $1 \le k \le \lfloor \frac{n}{2} \rfloor$) and representing motions which 1. let invariant k completely orthogonal (or absolutely polar) planes \$1,..., \$k with the dimensions $m_1-1, m_2-1, \dots, m_k-1$ and 2. let invariant all points of a plane So of the dimension n-1- Im which is perpendicular to all 3. In a long theorem the author gives necessary and sufficient conditions that two subgroups of the type 3 are orthogonal one to another in the sense of the Cartan metric for Lie spaces. Card 1/2

Orthogonal Pairs of Subgroups of the Groups O(n) SOV/140-58-2-3/20

The proof of the theorem bases on four lemmas and two auxiliary theorems.

There are 5 references, 2 of which are Soviet, and 3 American.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova (Moscow State University imeni M.V. Lomonosov)

SUBMITTED: October 29, 1957

Card 2/2

CIA-RDP86-00513R001858820007-2 "APPROVED FOR RELEASE: 08/31/2001

AUTHOR:

Vasil'yev, A.M.

SOV/20-121-1-4/55

TITLE:

On Orthogonal Subgroups of Classical Compact Lie Groups (Ob ortogonal'nykh podgruppakh klassicheskikh kompaktnykh grupp Li)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 121, Nr 1, pp 18-21 (USSR)

ABSTRACT:

The author considers certain special subgroups of the simple compact Lie group (subgroups of the type g). With the aid of linear representations and associative algebras the author obtains a theorem on the structure of the intersection of two subgroups of the type g . In four long sentences the author gives all necessary and sufficient conditions that two subgroups of the type gare orthogonal (in the sense of the Cartan metric). There are 4 references, 3 of which are Soviet, and 1 Prench.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova

(Moscow State University imeni M.V.Lomonosov)

PRESENTED:

February 25, 1958, by P.S. Aleksandrov, Academician

SUBMITTED: February 11, 1958

1. Groups (Mathematics) 2. Algebra

Card 1/1

Marking v SSR g a nove let, 1917-1957, ton in Oktom Richhantics in the CSR for Porty Vary 1, 1927-1957, printed. Zas: A Dynkin, G. 76. Shilore, 3. N. Arnissor, V Tweeter the Door): A. F. Lapkoj Tech. Zd.: 3. N. Arnissor, V Tweeter the Door): A. F. Lapkoj Tech. Zd.: 3. N. Arnissor, V Tweeter the Door): A. F. Lapkoj Tech. Zd.: 3. N. Arnissor, V Tweeter the Door): A. F. Lapkoj Tech. Zd.: 3. N. Arnissor, V Tweeter the Door): A. F. Lapkoj Tech. Zd.: 3. N. Arnissor, V Tweeter the Door): A. F. Lapkoj Tech. Zd.: 3. N. Arnissor, V Tweeter the Door): A. F. Lapkoj Tech. Zd.: 3. N. Arnissor, V Tweeter the Door): A. F. Lapkoj Tech. Zd.: 3. N. Arnissor, V Tweeter the Door of satherstice interested in Soriet markmaticians during the Door of Soriet markmaticians of the Soriet markmaticians	PHASE I BOOK EXPLOITATION SOV/3177	Matematika v SSSR za sorok let, 1917-1957.tom 1: Obtornyye stat': ('Mthamitics in the USSR for Forry Years, 19:77-1957) Vol 1: Review Articles) Moscow, Pitmatgiz, 1959. 1902 p. 5,500 copies printed.	i A. G. Kurosh, (Chief Ed.), V. I. Bityutskov, V. G. Ediyansky, Te. B. Dynkin, G. Ye. Shilowa, and A. P. Yuszkevich; Ed. (Inside book): A. F. Lapko; Tech. Ed.: S. N. Akhlasov.		TRAGE: This book is Volume I of a major 2-rolume work on the history of Soute matheastics. Yolume I surveys the chief contributions made by Soviet matheasticians during the period 1947-1977 and biographic sketches of some of the leading matheasticians. This work follows the fradition see by two satiler the ISSE of parameters. The seather yes SSE may permit the ISSE for 15 Years and was marked to see the seather of the seat	for 30 tears). The book is divided for the field, i.e., algebra, topology. Dunctional analysis, etc., and con-g problems in each discussed. A list-nessticians is included with reference in the field.	Mathematical Studies Connected with the Syr Stream in programming States use of computers systems States use of computers systems Systems States Systems States Systems System		887	and its generali-	1935 1935 11 dying images. Positional 895 18	V, 3. P.		913 915 915 916	"in the Large" 925 926 ex surface 930 reinstion of convex surfaces 930	regular metric dra ity of surfaces	9 9	local deformations	•	ancient Mast ent Oresce Middle Ages	ors y of various disciplines and uso a general nature uso	
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CIA-RDP86-00513R001858820007-2 "APPROVED FOR RELEASE: 08/31/2001

16(1)

Vasil'yev, A.M.

SOV/140-59-2-4/30

Λ

AUTHOR: TTTLE:

On a Class of Affine Connections in Homogeneous Spaces (Ob odnox klasse affinnykh svyaznostey v odnorodnykh prostranstvakh)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1959

Nr 2, pp 41-49 (USSR)

ABSTRACT:

Let G be a group, G* the linearly adjoined group, G the Lie algebra of G, g - subgroup of G, g* subgroup of G*. Let g contain no non-trivial normal divisor of G. In G let exist a subspace \hat{H} invariant with respect to g^* , where $\hat{H}+\hat{g}=\hat{G}$, $\hat{H}\cap\hat{g}=0$, where g is the subalgebra corresponding to the subgroup g. Principal theorem: Let the subgroups gi, g of the Lie group G have the above mentioned properties, let $g_1 \supset g_2 \supset \cdots \supset g_m \supset g$ and $\hat{H}_1 \subset \hat{H}_2 \subset ... \subset \hat{H}_m \subset \hat{H}$. Then in the homogeneous space G/g there exists an m-parametric family of invariant affine connections without torsion, the geodesic lines of which are the inverse images in the mapping P of the one-parametric subgroups and

Card 1/2

CIA-RDP86-00513R001858820007-2" APPROVED FOR RELEASE: 08/31/2001

sev/140-59-2-4/30 On a Class of Affine Connections in Homogeneous Spaces

their classes of the group $GxG_{\underline{i}}^{+}x_{*}...xG_{\underline{m}}^{+}$, where every $G_{\underline{i}}^{+}$ is isomorphic to the g_1 . P: $(GxG_1^*x ... *G_m^*) \rightarrow G/g$.

This result generalizes a construction of P.K. Rashevskiy

There are 3 references, 1 of which is Soviet, 1 American, and

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova (Moscow State University imeni M.V.Lomonosov)

SUBMITTED: September 29, 1958

Card 2/2

CIA-RDP86-00513R001858820007-2 "APPROVED FOR RELEASE: 08/31/2001

SOV/20-128-2-1/5 16(1) Vasil'yev, A.M. Complete Geodetic Submanifolds of Homogeneous Spaces AUTHOR: PERIODICAL: Doklady Akademii nauk, SSSR, 1959, Vol 128, Nr 2, pp 223-226 (USSR) Let the subgroup g of the Lie group G have the properties: 1) it does not contain the non-trivial normal divisor of G, 2) in the Lie algebra G of G there exists a subspace H being ABSTRACT: invariant with respect to the subgroup g * of the group G * adjoint to G, where $H + \hat{g} = \hat{G}$, $H \cap \hat{g} = 0$, where \hat{g} is the subalgebra corresponding to the subgroup g. Let g be a direct product of several factors. These are divided into q classes with p, factors, where the factors of one class are isomorphic. Giving the isomorphisms between the factors of a class, one obtains a subgroup go being isomorphic to the direct product of q factors (one representative of each class). In the homogeneous space G/g an affine connection free of torsion is defined by g_0 (see $\int Ref 1,2 \int$). The subalgebra g' of \widehat{G} which decomposes into a direct sum of subspaces $(\widehat{g}^{\, \cdot} \bigcap H)$ and $(\hat{g}' \cap \hat{g}_0)$ defines a transitive submanifold in G/g_0 , which in the sense of the connection, corresponds to H and is completely Card 1/2

Complete Geodetic Submanifolds of Homogeneous Spaces SOV/20-126-2-1/5

geodesic (compare $\lceil \text{Ref } 3 \rceil$). In this case g' and ε_0 are denoted to be normal with respect to H. In the present paper in a special case the author gives conditions under which the subgroup g' having the same structure as ε_0 , is normal to ε_0 . There are 4 Soviet references.

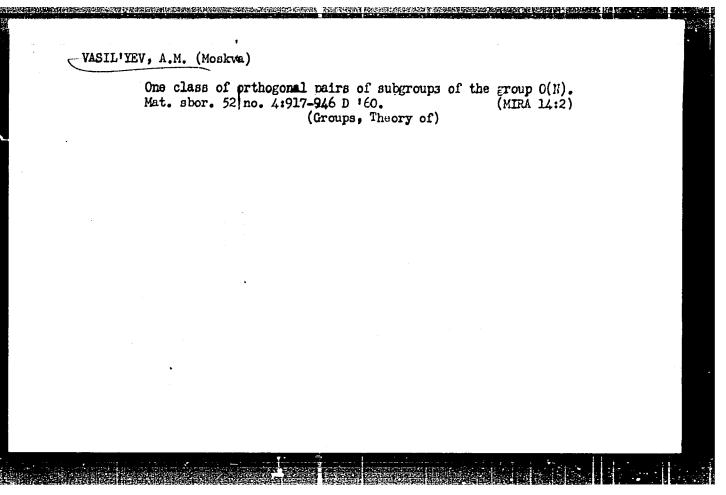
ASSOCIATION: Moskovskiy gosudarstvenny; universitet imeni M.Y. Lomonosova (Moscow State University imeni M.V. Lomonosov)

PRESENTED: May 22, 1959, by P.S.Aleksandrov, Academician

SUBMITTED: March 15, 1959

STATES HOLDER SERVICE STATES OF THE PROPERTY O

Card 2/2



VASIL'YEV, A. M.

Doc Phys-Math Sci - (diss) "Geometry of Uniform spaces." Moscow, 1961. 8 pp; (Moscow State Pedagogical Inst imeni V. I. Lenin); 200 copies; price not given; (KL, 10-61 sup, 203)

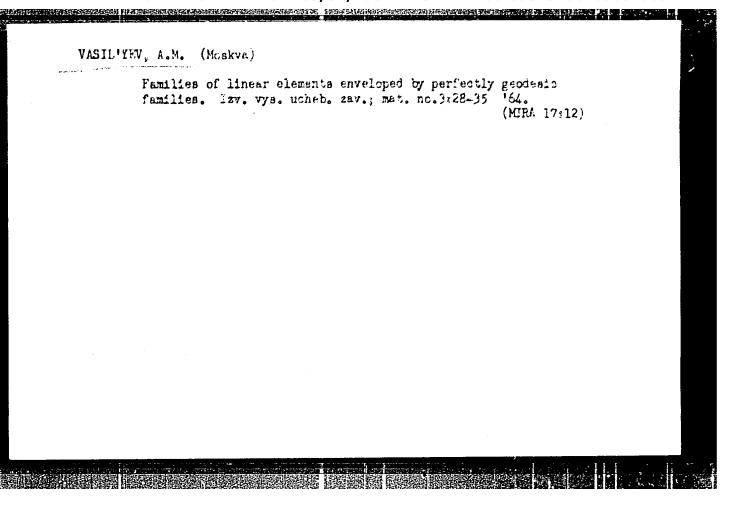
VASIL'YEV, A.M.

C'-connectivities in homogeneous spaces and their totally geodetic submanifolds. Dokl. All SSSR 140 no.2:281-283 S '61. (MIRA 14:9)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.

Predstavleno akademikom P.S.Aleksandrovym.

(Groups, Theory of)



L 03021-67 EWT(d) IJP(c)

ACC NR: AP6027945

SOURCE CODE: UR/0039/66/070/004/0457/0480

AUTHOR: Vasil'yev, A. H. (Moscow)

16

ORG: none

8

TITLE: Systems of three differential equations having partial derivatives of the first order with three unknown functions and two independent variables (local theory)

SOURCE: Matematicheskiy sbornik, v. 70, no. 4, 1966, 457-480

TOPIC TAGS: partial differential equation, differential geometry

ABSTRACT: Systems of three first-order partial differential equations in three unknown functions and two independent variables $(S_3^{-1}2)$ are studied using Cartan's differential geometry (local theory). Quasilinear systems $S_3^{-1}2$ are studied for the case of noncoincident characteristics, and the necessary and sufficient conditions are indicated for systems to be reducible to linear systems. Questions relating to the invariant laws for quasilinear systems are discussed, and a necessary condition for the absence of invariance in a system is introduced. The concept of a general flow function is introduced, and its role in the theory is presented. As examples, several systems encountered in mechanics are studied. Orig. art. has: 82 formulas.

SUB CODE: 12/

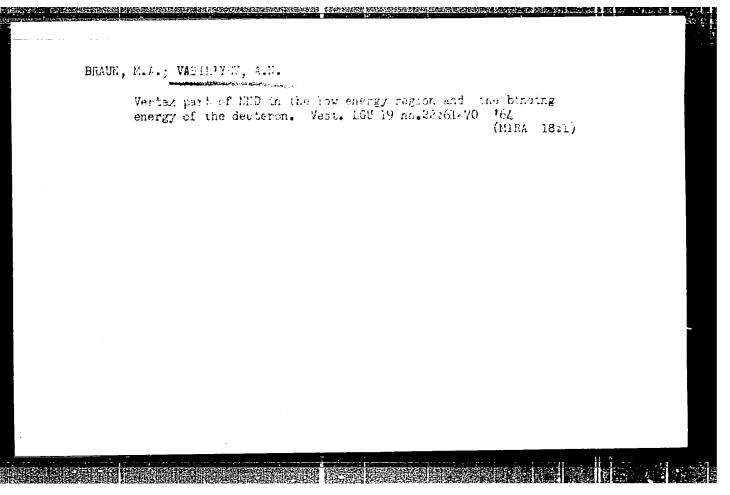
SUBM DATE: 18Dec64/

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OTH REF: 007

Cord 1/1

UDC: 513.73+517.945.7



VASIL'YEV, A.N., starshiy nauchnyy sotrudnik

Selecting the method of weft feeding to the automatic linen lcoms.
Tekst.prom. 22 no.9:38-41 S '62. (MIRA 15:9)

1. TSentral'nyy nauchno-issledovatel'skiy institut promyshlennosti lubyanykh volokon.

(Looms) (Automatic control)

CONTROL DESCRIPTION OF THE PROPERTY OF THE PRO

VASIL'YEV, A.N., starshiy nauchnyy sotrudnik; Prinimal uchastiye:

GANTMAKHER, M.A., mladshiy nauchnyy sotrudnik

Economic efficiency of the use of the newest loom types in the linen industry. Tekst.prom. 22 no.ll:43-46 N '62.

(MIRA 15:11)

l. TSentral'nyy nauchno-issledovatel'skiy institut lubyanykh volokon (TSNIILV) (for Vasil'yev).

(Looms)

THE RESERVE OF BRIDE STORY OF THE PROPERTY OF

VASIL'YEV, A.N. (Moskva) Relation of the magnitude of time reactions to the appearance and disappearance of a signal as an index of the strength of the nervous system. Vop. psikhol. 6 no. 6:113-122 H-D

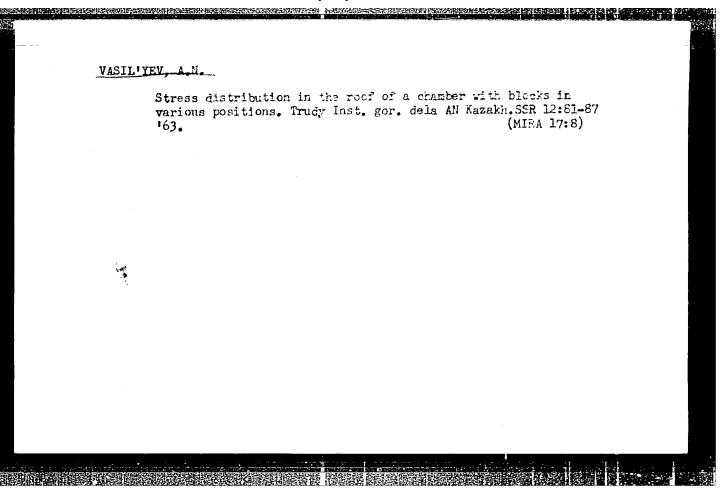
(Reflexes)

MUSIN, A.Ch.; CHABDAROVA, Yu.I.; VASILIYEV, A.N.

Methods of determining the span of chamber-like workings.

Trudy Inst. gor. dela AN Kazakh. SSR 12:61-72 '63.

(MIRA 17:8)



VASIL'YEV, Anatoliy Nikolayevich; PODYNCGIN, Ivan Yevteyevich; NIKITIN, Petr Dmitriyevich; MIKHAYLOV, O.A., redaktor; ROZENTSVEYG, Ya.D., redaktor izdatel'stva; ATTOPOVICH, M.K., tekhnicheskiy redaktor

HISTORIAN PROPERTY OF THE PROP

[Work practices of outstanding steel smelters of the Kuznetsk Metallurgical Combine] Opyt raboty peredovykh masterov-staleplavil'shchikov Kuznetskogo metallurgicheskogo kombinata. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii. 1956. 111 p. (MLRA 9:11)

(Kuznetsk Basin -- Smelting)

VASIL'YFY, A.N.

Analyzing the present status of core drilling in Yakutia. Izv. vys.ucheb.zav.; geol.i razv. 2 no.8:138-142 Ag 159.

(MIRA 13:4)

1. Moskovskiy geologorazvedochnyy institut im. S.Ordzhonikidze. (Yakutia--Boring)

VASIL'YEV, A.N.

Using compressed air for scavenging well bottoms in shot drilling. Izv. vys. ucheb. zav.; geol. i razv. 3 no.8:112-121 Ag '60.

(MIRA 13:10)

1. Moskovskiy geologorazvedochnyy institut im. S. Ordshonikidze. (Boring)

VASIL'YEV, A.N.

Ways of controlling breakdowns in drilling under permafrost conditions. Razved. i okh. nedr 26 no.4:27-30 Ap '60g' (MIRA 15:7)

1. Moskovskiy geologorazvedochnyy institut.
(Yakutia—Boring—Cold weather operations)

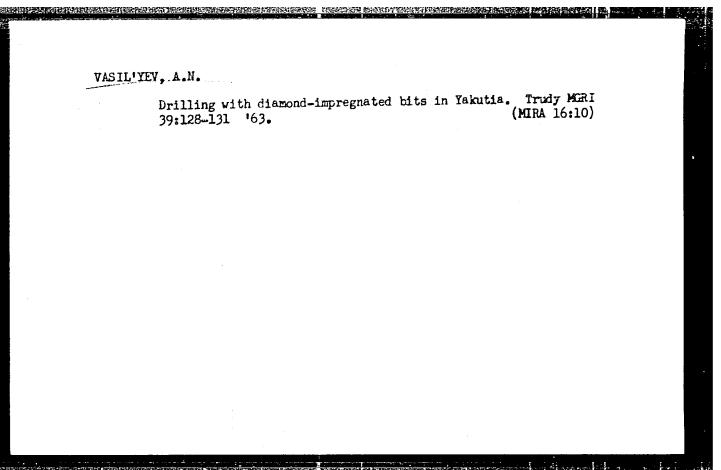
VASIL'YEV, A. N.

Cand Tech Sci - (diss) "Features of the technology and organization of core drilling under conditions of permanent frost in Yakutia." Moscow, 1961. 25 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Geological Surveying Inst imeni S. Ordzhonikidze); 160 copies; price not given; (KL, 7-61 sup, 233)

VASIL'YEV, A.N. (Perm'); GRISHAYEV, A.I. (Perm')

More about the new type of drilling unit. Put' i put. khoz.
7 no.5143 '63. (MIRA 16:7)

(Drilling and boring machinery)



VASIL'TEV, A.N.

Consolidation of tubular bone fractures in the Far North. Vest. khir. 76 no.11:129-130 '55. (MIRA 9:4)

(RUSSIA, NORTHERE fractures)

U-4

VASILYE V, MA

USSR/.General Problems of Pathology. Tumors

.

Abs Jour : Ref Zhur - Biol., No 5, 1958, 23114

Author : Vasilyev, A.N.
Inst :

Title : Outcosarcoma of the Tibial Epiphysis.

Orig Pub : Ortopediya, travmatol. i protezir., 1956, No 4, 56

Abstract : This is a case of an osteosarcoma of the metaepiphysis

of the tibia in a 23-year old patient. Six months after a fracture in the area of the tuberosity of the tibia (the area of insertion of a rod for traation purposes), swelling and pain appeared. The patient was operated on with a diagnosis of osteomyelitis. Furulent-like substance and soft tissue edema were found. The histologic diagnosis was osteosarcoma. Three months later an amputation through the upper third of the thigh was performed; a histologic study confirmed

the diagnosis of osteosarcoma.

Card 1/1

VASIL'YEV, A.N. (g. Molotov-oblastnoy)

Vermiform appendix in the left subcostal region. Vest.khir. 77 no.5:
100 My '56.
(APPENDICITIS)

(MLRA 9:8)

VASILYEV, A. N.

GUKOVSKAYA, Natal'ya Isidorovna, sovetnik yustitsii; SVESHNIKOV, Vyacheslav Aleksandrovich, podpolkovnik med. sluzhby; VASIL'YEV, A.H., kand. yurid.nauk, otvetstvennyy red.; DAMANINA, Ye.D., red.; KOSAREVA,

[Medicolegal examination of the corpse in cases of violent death; a manual for investigators] Sudebnomeditainskaia ekspertiza trupa po delam o nasil'stvennoi smerti; posobie dlia sledovatelei.

Moskva, Gos.izd-vo iurid.lit-ry, 1957. 254 p. (MIRA 10:12)

(AUTOPSY) (MEDICAL JURISPRUDENCE)

Device for holding bone fractures together

Device for holding bone fractures together when using Titova's plaster cast. Ortop., travm. i protez. 18 no.1:61 Ja-F '57.

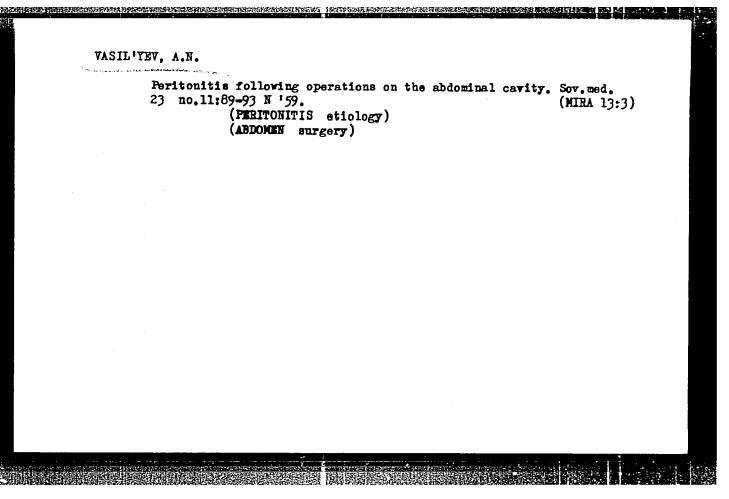
(PLASTER CASTS, SURGICAL) (MIRA 10:6)

VASIL'YEV, A.H. (Moskva)

Interrelation between some indexes of the mobility of the nerve processes. Vop.psikhol. 5 no.6:89-101 N.D '59.

(MIRA 13:4)

(LEARNING, PSYCHOLOGY OF) (NERVOUS SYSTEM)



KACHKOV, A.P.; MURAV'YEV, M.V. (Moskva, Lopukhinskiy per.,d.6,kv.1); VASIL'IKV, A.W.

Peacetime wounds of the heart. Grud, khir. 1 no.5:106-109 8-0 '61. (MIRA 15:3)

1. Iz kafedry obshchey khirurgii i lechebnogo fakul'teta (zev. - prof. V.I. Struchkov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova na baze klinicheskoy bol'nitsy No.23 imeni "Medsantrud" (glavnyy vrach A.F. Timofeyeva).

(HEART-WOUNDS AND INJURIES)

USPENSKIY, Yu.N.; VASIL'YEV, A.N.

Modified bloodless method for the determination of venous pressure in man. Fiziol. zhur. 47 no.1:121-124 Ja '61. (MIRA 14:3)

1. From the Laboratory of Pathophysiology of the higher nervous activity, Psychiatric Institute of Health Preservation Ministry of the R.S.F.S.R., Mowsow.
(BLOOD PRESSURE)

AND THE PROPERTY OF THE PERSON OF THE PERSON

1 278 18-66 EWT (d) IJP(c)

UR/0056/65/049/004/1103/1108

AUTHOR: Vasil'yev, A. N.

ORG: Leningrad State University (Leningradskiy gosudarstvennyy universitet)

TITLE: On the uniqueness of the Wightman functional

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 4, 1965,

TOPIC TAGS: functional equation, quantum field theory ABSTRACT: It is shown that an irreducible Wightman functional (defined by a sequence of functions W_0 ; $W_1(x_1)$; ...; $W_k(x_1 \ldots x_k)$; ...), satisfying the usual requirements and the requirement of the existence of a minimal mass, is uniquely determined by its f, i.e., by the set of all

$$g = (g_0; g_1(z_1); \dots; g_n(z_1 \dots z_n); 0; 0; \dots)$$

(the $g_k(x_1 \, \ldots \, x_k)$ are infinitely differentiable functions decreasing faster than any inverse power as $x_1 \rightarrow \infty$, for which

$$W(g+g) = \sum_{l,m} \int \dots \int dx_{l} \dots dx_{l+m} W_{l+m}(x_{l} \dots x_{l+m}) \bar{g}_{l}(x_{l} \dots x_{l}) g_{m}(x_{l+1} \dots x_{l+m}) = 0.$$

If a functional consists of a finite number of irreducible ones, its Ω allows a unique reconstruction of all the irreducible components. Several consequences of

Card 1/2

these star	AP5026602 tements are disc s interest. Ori	cussed. Author the. art. has: 24	anks <u>L. V. Prokhorov</u> formulas.	for discussions	and /
SUB CODE:	12, 20/ SUE	M DATE: 06Jan65/	ORIG REF: 001/	OTH REF: 003	
75					_

KOROLEV, A.I.; BLINOV, S.T.; IUBENETS, I.A.; KOBURNEYEV, I.M.; TURUBINER,
A.L.; VASIL'YEV, S.V.; CHERNENKO, M.A.; BELOV, I.V.; TELESOV, S.A.;
MAZOV, V.F.; MEDVEDEV, V.A.; MAL'KOV, V.G.; BUL'SKIY, M.T.;
THUBETSKOV, K.M.; SHNEYEROV, IA.A.; SLADKOSHTEYEV, V.T.; PALANT,
V.I.; KUROCHKIN, B.H.; ZHDANOV , A.M.; BELIKOV, K.N.; SABIYEV,
M.P.; GARBUZ, G.A.; PODGORETSKIY, A.A.; ALFEROV, K.S.; NOVOLODSKIY,
P.I.; MOROZOV, A.N.; VASIL'YEV, A.N.; MARAKHOVSKIY, I.S.; MALAKH,
A.V.; VERKHOVTSEV, E.V.; AGAPOV, V.F.; VECHER, N.A.; PASTUKHOV, A.I.;
BORODULIN, A.I.; VAYNSHTEYN, O.YE.; ZHIGULIN, V.I.; DIKSHTEYN, Ye.I.;
KLIMASENKO, L.S.; KOTIN, A.S.; MOLOTKOV, N.A.; SIVERSKIY, M.V.;
ZHIDETSKIY, D.P.; MIKHAYLETS, N.S.; SLEPKANEV, P.N.; ZAVODCHIKOV,
N.G.; GUDENCHUK, V.A.; NAZAROV, P.M.; SAVOS'KIN, M.Ye.; NIKOLAYEV,
A.S.

THE PROPERTY OF THE PROPERTY O

Reports (brief annotations). Biul. TSNIICHM no.18/19:36-39 157. (MIRA 11:4)

1. Magnitogorskiy metallurgicheskiy kombinat (for Korolev, Belikov, Agapov, Dikshteyn). 2. Kuznetskiy metallurgicheskiy kombinat (for Blinov, Vasil'yev, A.N., Borodulin, Klimasenko). 3. Chelyabinskiy metallurgicheskiy zavod (for Lubenets, Vaynshteyn). 4. Zavod im. Dzherzhinskogo (for Koburneyev). 5. Zavod "Zaporozhstal'" (for Dzherzhinskogo (for Koburneyev). 5. Zavod "Zaporozhstal'" (for Turubiner, Mazov, Podgoretskiy, Marakhovskiy, Savos'kin).

Turubiner, Mazov, Podgoretskiy, Marakhovskiy, Savos'kin).

6. Makeyevskiy metallurgicheskiy zavod (for Vasil'yev, S.V., Mal'kov, Zhidetskiy, Al'ferov). 7. Stal'proyekt (for Chernenko, Mal'kov, Zhidetskiy, Al'ferov). 9. Stalinskiy metallurgicheskiy zavod (for Telesov, Malakh).

(Gontinued on next card)

KOROLEV, A.I .-- (continued) Card 2.

10. Nizhne-Tagil'skiy metallurgichskiy kombinat (for Medvedev, Novolodskiy, Vecher). 11. Zavod "Azovstal'" (for Bul'skiy, Slepkanev). 12. TSentral'nyy nauchno-issledovatel'skiy institit chernoy metallurgii (for Trubetskov). 13. Ukrainskiy institut metallov (for Shneyerov, Slečkoshteyev, Kotin). 14. Zavod "Krasnyy Oktyabr'" (for Palant). 15. Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskov teplotekhniki (for Kurochkin). 16. Zavod im. Voroshilova (for Sabiyev). 17. Chelyabinskiy politekhnicheskiy institut (for Morozov). 18. Giprostal' (for Garbuz). 19. Ural'skiy institut chernykh metallov (for Pastukhov). 20. Zavod im. Petrovskogo (for Zhigulin). 21. Ministerstvo chernoy metallurgii USSR (for Mološkov, Siverskiy). 22. Glavspetsstal' Ministerstva chernoy metallurgii SSSR (for Nikolayev). (Open-hearth process)

CIA-RDP86-00513R001858820007-2 "APPROVED FOR RELEASE: 08/31/2001

137-58-6-11811

Translation from: Referativnyy zhurnal, Metallurgiya, 1950, Nr 6, p 88 (USSR)

AUTHOR:

Vasil'yev, A.N.

TITLE:

Deoxidation of Steel by Ferromanganese in the Ladle (Raskis-

leniye stali ferromargantsem v kovshe)

PERIODICAL:

Tr. Nauchno-tekhn. o-va chernoy metallurgii, 1957, Vol

18, pp 396-403

ABSTRACT:

Data are presented on experimental heats of rimmed grades of steel rolled to all the sections listed in GOST (standard) 3280-55, GOST 500-52, and GOST 535-52 (except for beams of Nr 36 size and above). The heats were run in large open hearth furnaces at the Kuznetsk metallurgical kombinat with deoxidation of the metal by Fe-Mn in the ladle. When [Si] in the metal <1%, the metal in the mold effervesced normally. The duration of the experimental heats was 4 min longer than the usual (with deoxidation by Fe-Mn in the furnace) in view of the fact that the working period was run less intensively, as the metal has to be at a higher temperature before deoxidation (by approximately 5-10°C) to compensate for heat loss when Fe-Mn is added to the ladle. Deoxidation in the ladle makes it

Card 1/2

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Deoxidation of Steel by Ferromanganese in the Ladle

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possible to save 2.5 kg in every ton of steel. The quality of the surface of the rolled product and its mechanical properties are not affected by the method of Fe-Mn deoxidation employed. A.S.

- 1. Steel--Producton 2. Steel--Deoxidation 3. Iron-manganese alloys--Applications
- 4. Dippers--Applications

Card 2/2

SOV/137-58-9-18573

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 56 (USSR)

Medzhibozhskiy, M.Ya., Sokolov, I.A., Shestakov, N.A., AUTHORS:

Vasil'yev, A.N.

Compressed Air Blowing of Liquid Metal in Heavy-duty Open-TITLE:

hearth Furnaces (Vduvaniye kompressornogo vozdukha v zhid-

kuyu vannu bol'shegruznykh martenovskikh pechey)

Izv. vyssh. uchebn. zavedeniy. Chernaya metallurgiya, 1958, PERIODICAL:

Nr 2, pp 34-47

A report on the results of 40 experimental smeltings carried out in the 390-ton open-hearth furnaces of the KMK (Kuznetsk ABSTRACT:

Metallurgical Kombinat). Compressed air at a pressure of 3.5-5.0 atm gage was introduced into the hearth at a rate of 2500-2800 m³/hr by means of two water-cooled tuyeres installed in the crown of the furnace. The blowing commenced 1-1.5 hrs prior to melting and terminated at the beginning or the midpoint of the pure "boil" period. In the course of the experimental smeltings, the rate of decarbonization became considerably faster, the dephosphorization process more efficient, and

the content of FeO in the slag increased by 6% at the end of the

Card 1/2

SOV/137-58-9-18573

Compressed Air Blowing of Liquid Metal in Heavy-duty Open-hearth (cont.)

melting stage. Instead of 1.0-1.5°C/min, as in the case of a standard smelting process, the temperature of the metal increased at a rate of $2.0-2.5^{\circ}\text{C}/$ min; this made it possible to reduce the consumption of conventional fuel by an average of 7 kg per ton of ingots. In the process the degree of utilization of O2 contained in the compressed air by the molten metal is increased by a factor of 4-8 owing to the increased supply O2 from the atmosphere of the furnace. Compressed-air blowing at a pressure of 5.5 atm gage is equivalent in efficiency to blowing with pure O2. The duration of a 390-ton melting process was reduced by 38 minutes on the average. The amount of dust being evolved during blowing does not exceed 1 g/m3. No noticeable wear was observed in the furnace lining. Overoxidation of metal in the course of the blowing process was absent; at the same time the content of N amounted to only 0.0033%. The finished metal contains H, O, N, and slag inclusions in quantities analogous to those contained in standard metals. Mechanical properties of the steel were not impaired. v.G.

1. Open hearth furnace--Performance 2. Metals (Liquid)--Processing 3. Compressed air--Applications

Card 2/2

SONDIOV, I.A., ingh.; VASILITEV, A.N., ingh.; NIKULIN, N.G., ingh.

Deoxidation of low-alloy steel entirely in the ladle. Metallurg
3 no.12:14-17 D '58.

1.Kuznetskiy metallurgicheskiy kombinat.
(Steel alloys--Metallurgy)

ZARVIN, Ye, Ya., kand. tekhn. nauk; DEMYKIN, K.V., inzh.; VASIL'YEV, A.N., inzh.

Sulfur balance in 370-ton and 190-ton converter smelting of low-manganese and ordinary pig iron. Izv. vys. ucheb. zav.; chern. met. no.4:23-35 Ap 158. (MIRA 11:6)

1. Sibirskiy metallurgicheskiy institut i Kuznetskiy metallurgicheskiy kombinat.

(Bessemer process) (Sulfur)

sov/130-58-12-7/21

Sokolov, I.A., Vasil'yev, A.N. and Nikulin, N.G., AUTHORS:

Deoxidation of Low Alloy Steel Entirely in the Ladle (Raskisleniye nizkolegirovannoy stali polnost'yu v kovshe)

PERIODICAL: Metallurg, Nr 12, 1958, pp 14 - 17 (USSR)

ABSTRACT: The authors describe 43 experimental heats of types 09G2 and 09G2D low-alloy steels made to investigate the possibility of carrying out all the deoxidation in the ladle.

The deoxidisers in lumps up to 50 mm across were added from bunkers; first silicomanganese (20-25 kg/tonne steel) and ferromanganese (2-2.5 kg/tonne), then ferrotitanium (1.2-1.5 kg/tonne); finally aluminium (0.9-1 kg/tonne) was added manually. The additions were made smoothly and were completed before slagging started. In a few heats some metallic manganese was added. The metal was teemed via a tundish. Samples were taken during melting and pouring. The authors tabulate (Table 1) and discuss average melting conditions, compositions of samples and metal temperatures for the experimental and for 14 ordinary heats. The duration of the former was 8 hr 40 min and of the latter

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sov/130-58-12-7/21

Deoxidation of Low Alloy Steel Entirely in the Ladle

9 hours 24 min. Mechanical tests on samples taken from rolled products of the experimental and ordinary heats show that the properties are practically the same and superior to standard specifications (Table 2). The authors give comparative figures for consumptions of deoxidizers and comparative figures for consumptions of steel (Table 3). the resulting cost changes per tonne of steel (Table 3). They quote a figure of 45.55 roubles conversion cost. They quote a figure of 45.55 roubles conversion cost saving per tonne. But an editorial note points out that saving per tonne is due to the substitution of ferromost of the saving is due to the substitution of ferromanganese for metallic manganese, which is not related to manganese for metallic manganese, and that the the method by which deoxidation is effected, and that the real savings which can be credited to deoxidation in the ladle are the reduction in heat time and silicon and

Card 2/3

Deoxidation of Low Alloy Steel Entirely in the Ladle

manganese losses. The ladle deoxidation method was adopted at the Kuznetskiy metallurgical combine at the end of 1957.
There are 3 tables

ASSOCIATION: Kuznetskiy metallurgicheskiy kombinat (Kuznetsk metallurgical combine)

Card 3/3

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78036 SOV/130-60-3-5/23

AUTHOR:

Vasil'yev, A. N. Bogachev, S. I. (Engineers)

TITLE:

Utilization of Titanocontent Waste for Deoxidation of

Steel

PERIODICAL:

Metallurg, 1960, Nr. 3, pp 6-8 (USSR)

ABSTRACT:

At the Kuznetsk Combine (Kusnetskiy Combinot) the possibility of utilizing high-titanium wastes (chips and sheet trimmings) instead of ferrotitanium was investigated. The investigation was carried out on 15 melts of steels 18KhGT and 30KhGT (chemical

composition not given). Based on experimental work, the following conclusions were made: (1) The substitution of ferrotitanium by industrial waste material does not cause any technological difficulties, and guarantees uniformity of metal in the ladle. (2) High-titanium chips dissolve in the ladle better than ferrotitanium. (3) Better microstructure of rolled metal was obtained in the melts with metal

Card 1/3

temperature before deoxidation 1,650-1,600° C.

Utilization of Titanocontent Waste for Deoxidation of Steel

tables.

78036 **SOV/**130-60-3-5/23

(4) The surface quality and mechanical properties of experimental and regular melts are practically the same. (5) Loss in burning out of titanium in both groups of melts is 64.0%; loss of silicon in experimental melts is 8%, in regular, 6.7%. (6) Utilization of titanium waste saves 21 rubles per ton of metal. (7) The results of mechanical tests of regular and experimental melts are given in Table 2. There are 3

ASSOCIATION:

Kuznetsk Metallurgical Combine (Kuznetskiy metallurgicheskiy combinat)

Card 2/3

Utilization of Titanocontent Waste for Deoxidation of Steel

78036 SOV/130-60-3-5/23

Table 2. Results of mechanical tests of regular and experimental meits.

11.5			Constant Notes	7 10 10 10 10 10 10 10 10 10 10 10 10 10). 	7672 - 777 - 7 F	(a))
G. Peji II	and the state of t	14	100 106 106 106 150 172 165	90 102 103	63.6 9.6 14.2 13.2 5 9.0 11.5	62,6 63,0 45,0 48,0	6.0 8.1

Card 3/3

VASIL'YEV, A.M.; BOGACHEV, S.I.

Deoxidising steel by silicon-manganese alloys. Metallurg 5 no.9:13-15 S '60. (MIRA 13:8)

1. Kuznetskiy metallurgicheskiy kombinat. (Steel--Metallurgy) (Silicon-manganese alloys)

VASIL'YEV, A.N.; BOGACHEV, S.I.

Use of titanium tailings in 18KhGT steel smelting. Biul.
TSIICHM no.9:45-46 '60. (MIRA 15:4)

1. Maznetskiy metallurgicheskiy kombinat.
(Chromium steel--Metallurgy) (Titanium)

S/130/61/000/003/001/008 A006/A001

AUTHORS:

Vasil'yev, A.N., Bogachev, S.I.

TITLE:

The Use of Titanium Sponge for the Deoxidizing of Steel

PERIODICAL:

Metallurg, 1961, No. 3, pp. 14 - 16

TEXT: The use of titanium sponge replacing ferrotitanium when melting 18 XFT (18KhOT) and 30 XFT (30KhOT) steel in single-runner open-hearth furnaces has been started at the Kuznetsk Metallurgical Combine. Large-scale research work has preceded the introduction of this new method. The authors present results obtained from experimental heats. Until the moment of final deoxidation of the metal, the experimental heats were conducted according to conventional technological instructions. The metal of conventional heats was deoxidized in the ladle as follows: when filling the ladle with metal to 1/5 of its height the total amount of ferrosilicon is supplied from a stationary bin; then 50-180 mm ferrotitanium lumps are supplied from a trough suspended on a bridge crane. The supply of deoxidizers is completed when filling the ladle with metal 3/4 of its height. Due to the insufficient dissolving of ferrotitanium in the ladle prior to slag formation, the upper metal layers were saturated with Ti, and Mg and Si were reduced from the slag. As a result, the number of ingots rejected, on ac-

Card 1/5

S/130/61/000/003/001/008 A006/A001

The Use of Titanium Sponge for the Deoxidizing of Steel

count of their chemical composition was about 2.0%. In the experimental heats the order to supplying the admixtures into the ladle remained the same. The difference consisted merely in the fact that instead of ferrotitanium, 410 g/t of aluminum and about 600 kg per heat (3.2 kg/t) titanium sponge were supplied to the ladle. Two kinds of titanium sponge were used: "siftings" which are 10-50 mm lumps of 3.8 g/cm specific weight, and "rejects" of up to 100 mm size in the plane, up to 5 mm thick and of 2.6 g/cm specific weight. The chemical composition of both types is given below:

	Ti,	Рe	С	Si	Mn, P, S
Rejects:	98.5	1.4	0.05	0.05	traces
Siftings	99.4	0.5	0.05	0.05	traces

Titanium sponge was used for 19 experimental heats of 18KhOT and one heat of 30KhOT steel. A comparison is made with data obtained in 1959 from 11 conventional heats, with ferrotitanium addition to the ladle. Results obtained are given in Tables 1, 2, 3. On the basis of the experiments performed and of the practical use of titanium sponge the following conclusions can be drawn: the replace-

Card 2/6

3/130/61/000/003/001/008
A006/A001

The Use of Titanium Sponge for the Deoxidizing of Steel

ment of ferrotitanium by titanium sponge does not present any technological difficulties and assures a uniform composition of the steel. Titanium sponge dissolves in the ladle better than ferrotitanium; as a result rejects of ingots due to unsatisfactory chemical composition, are eliminated. The quality indices of metal melted using titanium sponge are practically not different from metal obmetal melted using titanium sponge are practically not different from metal observation of the store of the steel. To prevent ignition of titanium of about 50 kopeks per 1 ton of melted steel. To prevent ignition of titanium sponge, it should be stored and transported in closed metal containers.

Table 1: a) number of ingot; b) chemical composition, %; c) number of ingot; d) chemical composition, %

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The Use of Titanium S	n of Elements in	Metal Sampl	es of 11 Ex	perimental H	leats
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8/130/61/000/003/001/008 A006/A001 The Use of Titanium Sponge for the Deoxidizing of Steel Results of Mechanical Tests a) heat; b) number of heats; c) ultimate strength kg/mm²; d) yield limit kg/mm²; e) relative elongation kg/m²; f) relative constriction kg; g) toughness a_k, kg/cm²; h) according to techn. specific; Table 2: Относительст пое сужение OTHOR NAMHETD. Плавки i) experimental not less He Mence 90 Πο TY ,h) 50 9 12,7 12.5 13.2 61,9 108,4 Опытные 63.0 14,0 103.0 Card 5/6

8/130/61/000/003/001/008

The Use of Titanium Sponge for the Deoxidizing of Steel A006/A001

Table 3: Consumption of Deoxidizers; a) Aluminum; b) Ferro-Ti; c) Ti-sponge.

	•	PRINCE PRODUCE									
		Conven	tional	heats-	(11 hea	11 heats) Experimental Heats (19 hea					
:	Раскислители	Suppli Content in codepmante B roro- ed to BOR CIPAR, M finished Stee		yrap. %, loss, %		Suppli-Content in ed to conframe protection game finished stee		YEAD &			
	Deoxidizers	the lad	- Ti	8i 	TI ·	Si	the lad	_ TI	Si	TI	કા
a b c	45%-ный FeSi Алюминий Ферротитац Титановая губка	305 2000	0,098 —	0,29 — — —	- 64,2 -	9.3 - -	490 80 620	0,104	0,27 — —	- - 66,8	17.0
•	Bcero Total	2305	0,098	0,29	64.2	9,3	1190	0,104	0.27	66,8	17.0

There are 3 tables.

ASSOCIATION: Kuznetskiy metallurgicheskiy kombinat (Kuznetsk Metallurgical Com-

Card 6/6

LITVINENKO, D.L.; SHCHASTNYI, P.M., YAKUSHIN, V.I.; VASIL'YEV, A.N.;
PODYMCGIN, I.Ye.; YUDIN, N.S.; YEVSTAF'YEV, Ye.I.; HUBINSKIY, P.S.;
ELIMELAKH, R.Z.; MERSHCHIY, N.F.

Greater use in industry of semikilled steel. Metallurg 8 no.3:10-19
(MIRA 16:3)
Mr '63. (Steel—Metallurgy)

VASIL'YEV, A.N.; BOGACHEV, S.I.

Rapid pouring of rimmed steel. Metallurg. 8 no.10:16-17 0 '63.

(MIRA 16:12)

1. Kuznetskiy metallurgicheskiy kombinat.

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VASIL'YEV, A.N., inzh.; GOROKHOV, N.G., inzh.; YUSHIN, P.V., inzh.

Production of 20KhGNR steel at the Kuznetsk Metallurgical Combine.

Stal' 23 no.12:1085-1086 D '63. (MIRA 17:2)

1. Kuznetskiy metallurgicheskiy kombinat.

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MONASTYRSKIY, V.Ya.; HOGACHEV, S.I.; VASIL'YEV. A.N.

Heating of high-grade steel ingots with dolomite waste. Metallurg

(MIRA 18:10)

10 no.10:17-19 0 65.

1. Kuznetskiy metallurgicheskiy kombinat.

TRIFCNOV, O.V.; BCGACHEV, S.I.; VASIL'IEV, A.N.

Pouring steel with a 45 millimeter casting nozzle. Metallurg 10 (MIR: 18:5)

no.3:18-19 Mr '65.

1. Kuznetskiy metallurgicheskiy kombinat.

TKACHEV, V.V., inzh.; SHOLENINOV, V.M., inzh.; Prinizali uchastiya: KONSTANTINOV, V.G.; LEVIN, L. Ya.; GRIGOR YEVYKE, G.F.; ZAKHAROV, V.N.; ZHDAKOV, L.A.; PUZAROV, N.A.; CHKHANOV, V.I.; VASILIYEV, A.N.; ZHELIZHAYA, P.T.; THOAR MOVA, Yesa.; IMVKIN, A.S.; MOKIYEVSKIY, N.M.; SHAKHALOV, V.; SMIRNOV, A.I.

Developing the technology of producing a high-basicity open-hearth sinter. Stall 25 no.8:683-686 Ag 165. (MIRA 18:8)

1. Cherepovetskiy metallurgicheckiy zavod (for Tkachev, Sholeminov).

UTHOR:	Vasil'yev, A.	N.	_	. 4.6684	36
RG: Le	ningrad State I	University (Lening)	radskiy gosudara	tvennyy universitet)	\mathcal{B}
TTLE:/	Symmetry break	down in the Wightma	in axiomatic sci	icme	,
OURCE:	Zhurnal eksper	rimèntal'noy i teom	reticheskoy fiz:	(ki, v. 50, no. 4, 190	
OPIC TA	AGS: quantum e	lectrodynamics, gr	oup theory, stre	ong nuclear interaction	n,
scheme (of dynamics of dynami	(A. S. Wightman mic equations of sible types of e when the kern the set of the when there are s invariant with of dynamic equals.	f a theory, introdusymmetry breakdown tel of a given represent two or more irreductions the respect to the greations. Examples	ced by him earl are considered esentation of t is incomplete), cible functionaliven symmetry. and not simply of reducible functionaliven functions.	the Wightman axiomatusing the concept of a ler (ZhETF v. 50, No. The first corresponde algebra is not suffi and the second corresponds having the same ker the second symmetry is due to the incomplete actions representing a left the symmetry breakdownes not possess a symmetry breakdownes not possess a symmetry breakdownes.	3, 1966) and to riciently sponds to rnel, oreakdown eness of a theory of the

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can relate a whole class of reducible theories for which this symmetry is broken. The possibility of a breakdown of the second type is not so obvious and in order for such a breakdown to be possible it is necessary that there exist at least two different irreducible theories with the same kernel. It is shown, however, that enlarging the initial algebra reduces the possibility of symmetry breakdown of the second kind, and if the initial algebra chosen is the extension constructed by the author in the earlier paper, then there is no room for symmetry breakdown of the second type. Orig. art. has: 3 formulas.

SUB CODE: 20/ SUBM DATE: 20Sep65/ ORIG REF: 001/ OTH REF: 005

card 2/2 -20

L 33282-66 EWT(1)/FSS-2 TT/GW SOURCE CODE: UR/0058/65/000/012/D023/D023

AUTHORS: Mandel'shtam, S. L.; Vasil'yev, B. N.; Voron'ko, Yu. K.; Tindo, I. P.: 64
Shurygin, A. I.; Fetisov, Ye. N.

TITLE: Investigations of the short-wave end of the solar spectrum with the aid of satellites and rockets

SOURCE: Ref. zh. Fizika, Abs. 12D177

REP SOURCE: Tr. Komis. po spektroskopii. AN SSSR, t. 3, vyp. 1, 1964, 36-54

TOPIC TAGS: solar spectrum, solar corona, solar radiation, geophysic rocket, scientific satellite

ABSTRACT: The radiation of the gun was investigated experimentally and theoretically in the spectral region below 10 Å. It is established that this radiation has a continuous spectrum and is due to recombination of electrons and "heavy" ions in the solar corona. The measurements of the electron temperature of the radiating the solar corona in different experiments yielded values between 1.5 and 4 x regions of the corona in different experiments yielded values between 1.5 and 4 x 10⁶ °K; the flux of radiation at the limit of the earth's atmosphere is 2 - 8 x 10⁻⁴ erg/cm²-sec. [Translation of abstract]

SUB CODE: 03, 22/

Card 1/1

VASILIYEV, A.N., mladshiy nauchnyy sotrudnik; Prinimal uchastiye: NOVIKOV, A.K., inzh.

Preliminary evaluation of the economic efficiency of the new automatic UMPA-3L cop winder. Nauch.-issl.trudy TSNIILV 15:74-84 *61.

Expediency of making weft cops for burlap weaving directly on the loom. Ibid.:84-98 (MIRA 18:4)

L 8811-66 EWT(1) IJP(c) GG ACC NR: AP5024698 SQUECE CODE: IP/COE///E/Cha/com/ce//
AUTHOR: Vasil'yev, A. N. 35
chu: lenningrad State University (Leningradskiy gosudarstvennyy universitet)
TITIE: One attribute of the generalized free field
SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 49, no. 3, 1965, 781-783 TOPIC TAGS: quantum field theory, function analysis, operator equation, group theory
ABSTRACT: It is shown that a field which satisfies certain differentiability and group-theoretical properties is a generalized free field. The differentiation of the class of free fields is of fundamental interest, since it makes possible identification of theories that manifestly cannot describe real processes. The proof is based on a transformation of a local field, consisting in the transition from a field $\varphi(p)$ (the Fourier transform of $\varphi(x)$) to a field $\varphi_a(p) \equiv a(p^2)\varphi$, where $a(p^2)$ is an infinitely differentiable function of power growth and $\varphi(p)$ is a field operator in the momentum representation. If a is not a polynomial, then the field φ_a is in general non-local. However, if $\varphi(p)$ decreases sufficiently rapidly as $ p^2 \equiv p_0^2 - p^2 \to \infty$, and especially like $\exp(-\mu p^2)$ for some $\mu > 0$, then the field φ_a is local for any a and the initial field can only be a generalized free field. Author thanks L. B. Prokhorov for discussions and continuous interest in the work. Orig. art. has: 6 formulas. 50 SUB CODE: 20/ SUEM DATE: 06Jan65/ ORIG REF: 000/ OTH REF: 003
Card 1/1

EWT(d)/EWT(1)/T IJP(c) L 22126-66 ACC NR: AP6004927 SOURCE CODE: UR/0056/66/050/001/0112/0116 AUTHOR: Vasil'yev, A. N. ORG: Leningrad State University (Leningradskiy gosudarstvennyy universitet) TITLE: Description of two-particle scattering by means of a functional of the Wightman type SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 50, no. 1, 1966, 112-116 TOPIC TAGS: algebra, particle scattering, functional equation, Hilbert space ABSTRACT: In view of the fact that the hitherto published papers involving descriptions of states with the aid of the Wightman formalism all correspond to the few examples of states that are known and that correspond to the physically trivial case of noninteracting fields, the author attempts to derive an example of a nontrivial functional, even if it does not satisfy all the requirements imposed on the Wightman functional, but is sufficiently close to mathematical structure. To this end, he considers a subalgebra of an algebra A whose elements are finite sequences of the functions $(g_0; g_1(x); \dots; g_n(x_1 \dots x_n); 0; 0; \dots)$. By definition, this subalgebra $A^{(+)}$ consists of those elements of A for which only the components with an even subscript are different from 0, i.e., go; 0; g2(x1x2); 0; Card 1/2

L 22126-66

ACC NR: AP6004927

g4(x₁x₂x₃x₄); 0; ...). One of the representations of this subalgebra is constructed explicitly. An interesting peculiarity of the constructed representation is that the underlying Hilbert space contains only the vacuum and two-particle asymptotic states, and does not contain states with a higher number of particles. The model is defined by two generalized functions, and the properties of such a functional are analyzed. The conditions for the unitarity of the S-matrix in the case of two-particle scattering are discussed. The author thanks L. V. Prokhorov for useful discussions. Orig. art. has: 17 formulas.

SUB CODE: 20,12/ SUBM DATE: 19Jun65/ OTH REF: 004

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TO SECURIO DE CONTROL L 22258-66 EWT(d) IJP(c) ACC NRI SOURCE CODE: UR/0056/66/050/003/0694/0708 AP6010991 18 AUTHOR: Vasil'yev, A. N. ORG: Leningrad State University (Leningradskiy gosudarstvennyy universitet) TITLE: The possibility of a concept of a dynamic theory in the Wightman axiomatic scheme SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 50, no. 3, 1966, 694-708 TOPIC TAGS: Hilbert space, abstract algebra, isomorphic representa -tion, involution, isomorphism, algebra The concept of a set of dynamic equations of theory is introduced within the framework of the Wightman axiomatics. A dynamic equation is an arbitrary relation of the type $\mathbf{a}(\mathbf{g}) = \mathbf{E} \int \cdots \int \mathbf{d}_1 \cdot \mathbf{d}_k \mathbf{g}_k(\mathbf{x}_1 \cdot \cdot \cdot \mathbf{x}_k) \phi(\mathbf{x}_1) \cdot \cdot \cdot \phi(\mathbf{x}_k) = 0$, where $\phi(\mathbf{x})$ is the field operator and g is an element of space for which the Wightman funcitional W is defined (infinitely differentiable, rapidly decreasing functions from S space are usually taken as test functions for $g_i(x_1...x_2)$. The relation between theories with the same set of Card 1/2

L 22258-66

ACC NR: AP6010991

0

dynamic equations is discussed. From this viewpoint the choice of space for which W is defined is of importance; the wider this space the greater the number of dynamic equations that can be written down and hence the greater the information they contain. For a sufficiently broad class of theories (in particular including all local theories) it is demonstrated that W can be satisfactorily defined for a more extensive class of test functions than S. The following statements are proven: the irreducible Wightman functional W considered as a functional for the extended space may be prescribed dynamically (i.e., the respective set of dynamic equations defines it uniquely). However, if W is reducible but can be expanded into a finite number of irreducible functionals, then its set of dynamic equations uniquely defines all irreducible components of the functional.

SUB CODE: 20,12/ SUBM DATE: 20Sep65/ ORIG REF: 001/ OTH REF: 006/

Cord 2/2 nst

VASIL'YEV, A.N.

Uniqueness of the Whiteman functional. Zhur.eksp.i teor.fiz. 49 no.4:1103-1108 0 165.

1. Leningradskiy gosudarstvennyy universitet. (MIRA 18:11)

s/024/60/000/01/023/028

AUTHORS: Vasil'yev, A.P. and Koval E194/E355 TITLE:

Armoured Insulation

PERIODICAL:

2777年

Izvestiya Akademii nauk. SSSR, Otdeleniye tekhnicheskikh nauk, Energetika i avtomatika, 1960, Nr 1, pp 160-162 (USSR)

ABSTRACT:

In rotating electrical machines, particularly large turboalternators, the insulating material is subject to considerable mechanical stress. In such circumstances, armoured insulation offers advantages: the insulating layer is covered on one or both sides with a sheet of strong metal, thick enough to protect the insulation from

mechanical damage. The insulation may then be of the minimum thickness required from considerations of electric strength and its thermal conductivity is improved. Moreover, the construction permits the use of new kinds of insulating material such as ceramics, which have a high strength in compression and good thermal conductivity but

which could not be used hitherto because of their brittleness. In selecting materials for armoured insulation the coefficient of thermal expansion is important.

Sections of armoured insulation with ceramic or semi-ceramic Card1/3

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Armoured Insulation

S/024/60/000/01/023/028 E194/E355

insulating materials are illustrated schematically in Figure 1. They are :(steel)-(vitreous enamel)-(steel); (aluminium)-(oxide film)-(adhesive)-(oxide film)-(aluminium); (steel)-(grains of Al₂0₃ in varnish K-53)-(steel); and a variant of the latter with a different structure of the insulating layer. The thermal conductivity of these materials was about double that of ordinary laminated insulation and as the insulation thickness may be reduced the advantage is still greater. The authors then discuss a wedgeless construction of turbo-alternator rotor slot insulation. A laboratory model is illustrated schematically in Figure 2. A stress of 1 600 kg/cm^2 was applied to the insulation hydraulically and it was heated electrically to a temperature above 200 °C and at the same time 580 V were applied. As the wedgeless construction seems practicable only at low excitation voltages, the test voltage appears adequate. The insulation was constructed in accordance with the bottom diagram of Figure 1 and withstood the above test

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Armoured Insulation

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conditions at a temperature of 175 $^{\rm O}$ C without visible damage. The insulating layer was 0.2 mm thick and the steel liners 0.15 mm each. If this armoured insulation is used it is necessary to avoid plastic deformation of parts adjacent to the armoured insulation and there must be no sudden change of mechanical stress near the edge of the insulation. The point is illustrated with reference to Figure 3, in which 1, 2 and 3 represent steel, insulation and copper, respectively. In Figure 3a the design is such that the copper has flowed with risk of damage to the insulation; in Figure 3b the copper is alloyed to increase the mechanical strength but there is still some damage and in Figure 3B the design has been altered to avoid risk of damage to the insulation. It is concluded that the principle of armoured thin-layer insulation may be used to obtain insulation of high mechanical strength and thermal conductivity and affords the possibility of economising insulating material. There are 3 figures and 1 English reference.

Card 3/3 SUBMITTED:

November 14, 1959

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858820007-2"

VASILYEV, A.P.

124-11-12504

Translation from: Referativnyy Zhurnal, Mekhanika, 1957, Nr 11, p. 27 (USSR)

AUTHOR: Vasilyev, A. P.

TITLE: To the Problem of the Location of the Flame Front in a Liquid-

Propellant Combustion Chamber. (K voprosu o polozhenii fronta

plameni v kamere sgoraniya Zh. R. D.)

PERIODICAL: V sb.: Nekotoryye zadachi gidrogazodinamiki (MVTU, Vol 67,

Moscow, Oborongiz, 1955, pp 115-120)

ABSTRACT: An analysis is made of the specific problem of the possibility that the

flame front in a liquid-propellant combustion chamber may oscillate between two essentially stable positions, determined by the flow of the

mixture in the pre-frontal zone.

It is therein assumed that, up to the section occupied by the flame front, the mixture consists of droplets and vapors of its unreacted

components.

Starting from an exponential variation of the droplet radius with

time,

r=r_{oe}-kr

Card 1/3

the author has obtained an expression for the axial velocity component of the gases in the pre-frontal zone of the chamber:

124-11-12504

To the problem of the location of the flame front in a liquid-propellant combustion chamber, (continued)

$$w_{x}^{I} = \frac{848 \text{ T}}{p_{k} \text{ F}} \text{ G} \left(\frac{1 - e^{-3k_{r}}}{m_{r}} + v \frac{1 - e^{-3k_{0}\tau}}{m_{0}} \right)$$

where T and F are the temperature and the cross-sectional area of the chamber at a distance x from its head, G is the fuel flow per m and m are the molecular weights of the fuel and the oxidizer, and k are the characteristic evaporation-rate coefficients of the components, $V = G_0/G_1$ is the oxidizer/fuel flow ratio. In view of the fact that the curve showing the variation of the flame propagation velocity u as a function of the oxidizer excess coefficient attains a maximum for values of $X \approx 0.7 - 0.85$, the equation $X \approx 0.7 + 0.85$, the equation $X \approx 0.7 + 0.85$ attains a various satisfied for two values of $X \approx 0.7 + 0.85$, the equation $X \approx 0.7 + 0.85$. The components is determined by the evaporation speeds of the components. On that basis the author reaches the conclusion that there may be two essentially stable positions of the flame front, each located in a different portion of the combustion chamber; this, in his opinion, may give rise to an oscillation.

Card. 2/3

124-11-12504

To the problem of the location of the flame front in a liquid-propellant combustion chamber (continued)

It is worthy of note that, in reality, when a liquid-propellant chamber functions in a stationary regime, there is no distinct flame front separating a zone of feed mixture and a zone containing the products of combustion. As a consequence of the ejection of jets of fuel through the nozzles into the space between the diffuser cones a suction occurs, bringing about the return of currents of gaseous products of the combustion from the zone of incipient combustion, thereby introducing high degrees of temperature and advecting an amount of heat which then becomes available for the evaporation of the components. Thus the flow pattern in the head portion of the combustion chamber affords an exceedlingly complex structure which cannot be reconciled with the proposed schematicism of the flow of the working process.

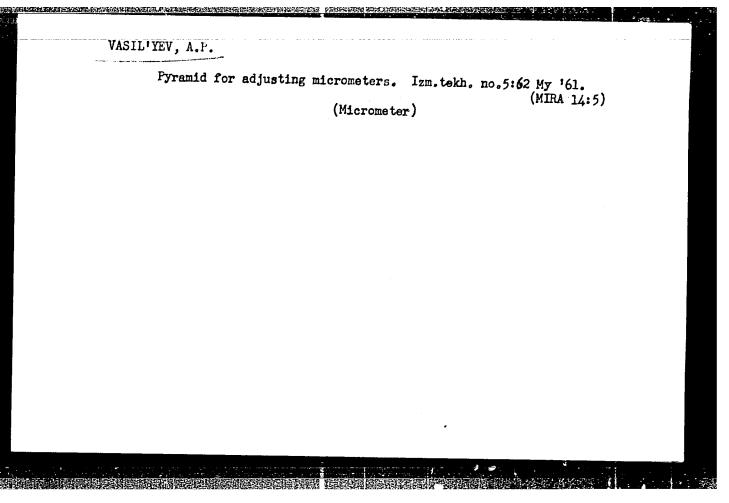
(A. I. Fedorov)

Card 3/3

VASIL'YEV, A.H.; NOVOGORODISEV, N.T.; OTLIVANOV, S.G.; TERESHIN, G.G.

Use of thermocouples for temperature control of liquid steel in steel smelting sections of the Kuznetsk Metallurgical Combine. Zav. lab. 22 no.9:1127-1130 *56. (MLRA 9:12)

1. Kuznetskiy metallurgicheskiy kombinat. (Thermocouples) (Steel) (Smelting)



VASIL'YEV, A.P.

Concorning high-speed flax pulling machinery. Trudy MIMESKH 4 no.2:181-197 '59.

(Flax) (Harvesting machinery)

(Flax) (Harvesting machinery)

VASILITEV. A.P., kand. tekhn. nauk

Accelerated flax pulling. Mekh. 1 elek. sots. sel'khos. 17 ne.2:14-19 159. (MIRA 12:6)

l.Moskevskiy institut mekhanizatsii i elektrifikatsii sel'skege khosyaystva.

(Flax -- Harvesting)

5/070/63/008/002/008/017 E021/E120

AUTHORS:

Vasil'yev A.P., and Vyatkin A.P.

TITLE:

Investigation of the crystallographic orientation and etching of gallium arsenide by the method of optical

PERIODICAL: Kristallografiya, v.8, no.2, 1963, 248-254

The method described by V.N. Vertonrakhov (Kristallogr. v.6, no.5, 1961, 753) was used in the investigation. The diameter of the parallel pencil of light was 1 - 1.5 mm. The samples investigated were flat parallel plates cut parallel to the main crystallographic planes (100), (110) and (111). The etchants used were of the compositions $HF:30\% H_2O_2:H_2O=1:1:2$ and $30\% H_2O_2:$

:5% NaOH = 1:5. Photographs of the optical figures from the main crystallographic planes of the etched crystal are shown after 1 - 10 minutes etching. Dissolution was anisotropic and with increase in etching time the etch figures became sharper. It was shown that the anisotropic character of dissolution could be used for controlling the orientation of flat plates and also for determining the crystallographic orientation of single crystals. Card 1/2

Investigation of the crystallographic... 5/0/0/02/0 5/070/63/008/002/008/017

The optical figures from the main crystallographic planes of gallium arsenide had a different appearance from the figures for germanium and silicon. It was established that only the plane (111) bounded by the atoms of gallium gave optical figures after etching. The method could thus be used to distinguish between (111) and (III) planes. There are 5 figures.

ASSOCIATION: Sibirskiy fiziko-tekhnicheskikh nauchno-issledovatel skiy institut pri Tomskom gosudarstvennom universitete im. V.V. Kuybysheva

(Siberian Physicotechnical Scientific Research Institute at Tomsk State University imeni

V.V. Kuybyshev)

SUBMITTED: June 6, 1962

Card 2/2

VASIL'AV, A. P.

PA 27T20

USER/Engineering
Concrete, Reinforced
GERMANY/Concrete, Reinforced

May 1947

"Factory Produced Sectional Ferroconcrete Construction," A. P. Vasil'ev, Engr, 5 pp

"Stroitel'naya Promyshlennost'" No 5

Article on the production process and products of a factory in Rudersdorf, Germany, which produces ferroconcrete structural units on a mass scale for industrial and government buildings. Author believes that the organization of production, the products, and the technology of their preparation can be utilized in the plants of the Soviet Union.

BS

27120

- 1. VASIL'YEV, A.P., KALATUROV, B.A.
- 2. USSR (600)
- 4. Reinforced Concrete Testing
- 7. Resistance of reinforced concrete elements with ridig reinforcement to a transverse force at bending. Stroi. prom. 30 no. 4, 1952, Laureat Stalinskoy Premii Kand. Tekhn. Nauk TSNIPS
- 9. Monthly List of Russian Accessions. Library of Congress, August 1952. UNCLASSIFIED.

- L. VASIL'YEV, A.P.: LESNIKOV, V.V. ENG.
- 2. USSR (600)
- 4. Reinforced Concrete Construction
- 7. Spot wolding of supporting skeletons used as reinfercements for reinferced cenerate construction. Eng. Stroi, press. 30 no. 21 1952

9. Monthly List of Russian Accessions, Library of Congress, March, 1950. Unclassified.

VASIL'YEV, A.P., kandidat tekhnicheskikh nauk; SIZOV, V.N., kandidat tekhnicheskikh nauk; AROBELIDZE, G.A., inzhener; GVOZDEV, A.A., professor, doktor tekhnicheskikh nauk; laureat Stalinsloy premii, redaktor; DESOV, A.Ye., professor, doktor tekhnicheskikh nauk, laureat Stalinskoy premii.

[Making precast concrete and reinforced concrete elements in construction yards.] Izgotovlenie sbornykh betonnykh i shlezobetonnykh konstruktsii na poligonakh. Moskva, Gos. izd-vo litry po stroit. i arkhitekture, 1955. 90 p. (Moscow. TSentral'nyi nauchno-issledovatel'skii institut promyshlennykh soorushenii. Nauchnoe soobshchenie, no.17)

(Precast concrete) (Reinforced concrete)